Founded 1969 by the Nordic Council of Ministers
<table>
<thead>
<tr>
<th>Slide presentation of Scandiatransplant activities 2013</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Presentation, purpose, awards, and office</td>
<td>Slide 3</td>
</tr>
<tr>
<td>Overall procurement and transplantation activity</td>
<td>Slide 9</td>
</tr>
<tr>
<td>Kidney transplantation</td>
<td>Slide 15</td>
</tr>
<tr>
<td>Liver transplantation</td>
<td>Slide 29</td>
</tr>
<tr>
<td>Thoracic organ transplantation</td>
<td>Slide 34</td>
</tr>
<tr>
<td>Pancreas transplantation</td>
<td>Slide 47</td>
</tr>
</tbody>
</table>
Scandiatransplant is the organ exchange organization for the Nordic countries Denmark, Finland, Iceland, Norway and Sweden. It covers a population of about 25 million inhabitants. It is owned by the ten hospitals performing organ transplantation in these countries. The office is located at Århus University Hospital, Denmark.
Purpose of Scandiatransplant

- Effect the exchange of organs and tissue
- Operate a database and communicate information
- Promote the provision of human organs and tissue for transplantation
- Support scientific activities
- Cooperate with national competent authorities, EU, and other transplantation organisations
Awarded Grants in 2013

Research Grants

- Principal investigator: Arno Nordin. "Liver Transplantation in cancer - a Nordic multicenter population based study." Supported with 20,000 €.
- Principal investigator: Helena Isoniemi. "Survival gap and premature death after liver transplantation - A Nordic population-based study." Supported with 20,000 €.

Travel Grant

- Jouni Lauronen: Grant for benchmarking visit to Barcelona Hospital Clinic’s tissue typing laboratory and transplant coordinator team. Supported with 15,000 DKK.
Number 1 priority: Changing to new (YASWA) system:
- Very crucial due to unsupported software and old hardware.
- Increased staff with 2 new programmers in summer 2013.
- Increase user friendliness and functionality.

Huge amounts of programming and testing done.
Scandiatransplant Office Activities 2013 (2)

- Kept the "old" system running to ensure correct organ allocation 24/7.
- Educated users and complied with demands from users, owners, researchers and the public.
- Arranged meetings for groups, committees, board and council of representatives.
- Participated in meetings with Nordic competent authorities, EU-commission and EU projects.
- Taking care of finance and personnel.
Figures for 2013

Organ procurement and transplantation activities in Scandiatransplant

Founded 1969 by the Nordic Council of Ministers
419 Utilized deceased donors (16.04 PMP)

organ transplants performed

- 1102 kidneys (347 were living related)
- 360 livers (5 were living related – 6 were domino)
- 130 hearts (0 were domino)
- 137 lungs including heart/lung
- 87 pancreas including kidney/pancreas

2211 patients on waiting list at end 2013
Patients entered on waiting list during 2013 (2012 figures)

- **Kidney**: 1344 (1324)
- **Liver**: 392 (371)
- **Heart**: 156 (159)
- **Lung**: 166 (165)
- **Pancreas**: 24 (31)
- **Kidney+Pancreas**: 69 (49)
- **Liver+kidney**: 10 (5)
- **TOTAL**: 2161 (2104)
Utilized donors PMP

Danmark, Finland, Norge, Sverige, Island
Flow on the waiting list during a year

- Entered during the year
- Transplanted during the year
- On waiting list at end of year
Organ exchange 2013

- Kidney: 16%
- Liver: 14%
- Heart: 20%
- Lung: 18%
Kidney Transplantation
Kidney exchange rate
1969 - 2013
Kidney Transplantation activity 2013 by centre

Living donor
Deceased donor
Kidney Transplantation
2013

Finland
Sverige
Norge
Danmark
Island

Living donor
Deceased donor
1344 new patients on kidney waiting list 2013

- Transplanted: 35%
- On WL: 59%
- Dead on WL: 2%
- Withdrawn: 4%
Kidney waiting list 1995 - 2013
Average time on kidney waiting list at end of year

Finland  Sverige  Norge  Danmark

Average Months on Kidney Waiting List by Immunisation status at end year
Deceased donor kidney transplants
1994 - 2013

Danmark
Finland
Norge
Sverige

1994-99
2000-04
2005-09
2010
2011
2012
2013
EXCHANGE CRITERIA
Kidney transplantation

• Compulsory exchange of at least one HLA-A, -B, -DR compatible kidney:
  - 1. Highly immunized (PRA ≥ 80%) patients who are HLA-A, -B, -DR compatible with donor.
  - 2. Scandiatransplant acceptable mismatch program.
  - 3. Immunized patients (PRA ≥ 10% but below 80%) who are HLA-A, B, DR compatible with donor.
  - 4. If organ donor is <40 years of age, at least one kidney is offered to recipient <16 years of age (counted from time of registration), if there is HLA-DR compatibility and in addition not more than 2 HLA-A, B mismatches.
  - 5. Patients who are HLA-A, -B, -DR compatible with donor unless the proposed recipient is >30 years older than the donor.
  - blood group 0 kidneys to blood group 0 recipients.
  - blood group B kidneys to blood group B recipients.
  - Return of another kidney within 6 months.
Liver Transplantation
Liver Transplantation
1989 - 2013

PMP
402 new patients on liver waiting list 2013

- Transplanted: 74%
- Dead on WL: 4%
- Withdrawn: 8%
- On WL: 17%
EXCHANGE CRITERIA
Liver transplantation

- Compulsory exchange to highly urgent patients on waiting list:
  - acute liver failure
  - acute liver re-transplantation
  - highly urgent patients on waiting list must be transplanted within 72 hours
  - Return (pay back) liver to Donor center

- Rota system
Thoracic Organ Transplantation
Heart Transplantation
1989 - 2013

Number

PMP
Heart transplantation 2013

Danmark
Finland
Norge
Sverige
156 new patients on heart waiting list 2013

- On WL: 36%
- Transplanted: 53%
- Withdrawn: 6%
- Dead on WL: 5%
EXCHANGE CRITERIA
Heart transplantation

● Compulsory exchange to highly urgent patients on waiting list:
  – Patient on short-term assist devices (ECMO, centrifugal pump).
  – Patient on paracorporeal or implantable blood pump with device failure or uncontrollable device infection.
  – Patients below 16 years on inotropic support or more than 12 months support on implantable LVAS.

● Rota system
Lung Transplantion
1994 - 2013
Lung waiting list 1991 – 2013
166 new patients on lung waiting list 2013

- On WL: 43%
- Transplanted: 50%
- Withdrawn: 2%
- Dead on WL: 5%
EXCHANGE CRITERIA

Lung transplantation

- Compulsory exchange to highly urgent patients on waiting list (max. three patients per center per year)
  - Priority 0: Patient on extra-corporeal circulatory support (ECMO, Novalung or other device) or ventilatory support*.
  - Priority 1: Patient with a rapid progression of organ failure with poor prognosis in a short time defined by the responsible centre*.

- Rota system
Pancreas Transplantation
Pancreas Transplantation
1988 – 2013
Thank you